

Nombre de alumnos: Sili Morelia Pérez Escobedo

Nombre del profesor: Jorge Enrique Albores Aguilar

Nombre del trabajo: INTEGRALES 4

Materia: Matemáticas Aplicadas

Grado: 6to cuatrimestre

Grupo: "A"

Comitán de Domínguez Chiapas a 31 de julio de 2022.

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\frac{1}{16x^244} = \frac{4u}{u^{2+\alpha}} = \frac{4}{\alpha} \arctan \frac{u}{u^{2+\alpha}} + c

\frac{1}{4} \int \frac{d(4x)}{(4x)^2 + a^2}

= \frac{1}{4} + \frac{1}{2} \arctan \frac{4x}{2} + c

= \frac{1}{8} \arctan 2x + c

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\frac{1}{8} \int \frac{d(5x)}{(5x)^{2+3}}

\int \frac{d}{5} \int \frac{d(5x)}{(5x)^{2+3}}

\int \frac{1}{5} \ln |5x + \sqrt{35x^2+3}| + c

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3. \int \frac{dx}{36-x^{2}} = \int \frac{dv}{\sqrt{v^{2} \pm a^{2}}} = 2n/v + \sqrt{v^{2} \pm a^{2}} + c
\frac{1}{1} \int \frac{dx}{6-(x)^{2}}
= \frac{1}{1} \cdot \frac{1}{12} \ln \left| \frac{x+6}{x-6} + c \right|
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= \frac{1}{12} \cdot \ln
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5. 5 dx
     2×14×216
                        \int \frac{dv}{v\sqrt{v^2\alpha^2}} = \frac{4}{\alpha} \arcsin \sec \frac{v}{\alpha}
                        12-4x2 02-16
  1 oresec 2x +c
                         v= 2x a=4
                         du= 2
                             formula:
6.- $ \\\ 25-25 dx =
                     Slaz 12 du = 1 Va2 - 42 + 2 an sen v
                          V2 25X2 a2 25
                          y= 5x d= 5
                           du=5dx
  = = 1/25-25 5 ax
 = $ (2x \ 25-15x1+25 arcsen $x + c
                            SILI MODELIN TRIKES ESCOREDIN
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